

FIG. 1

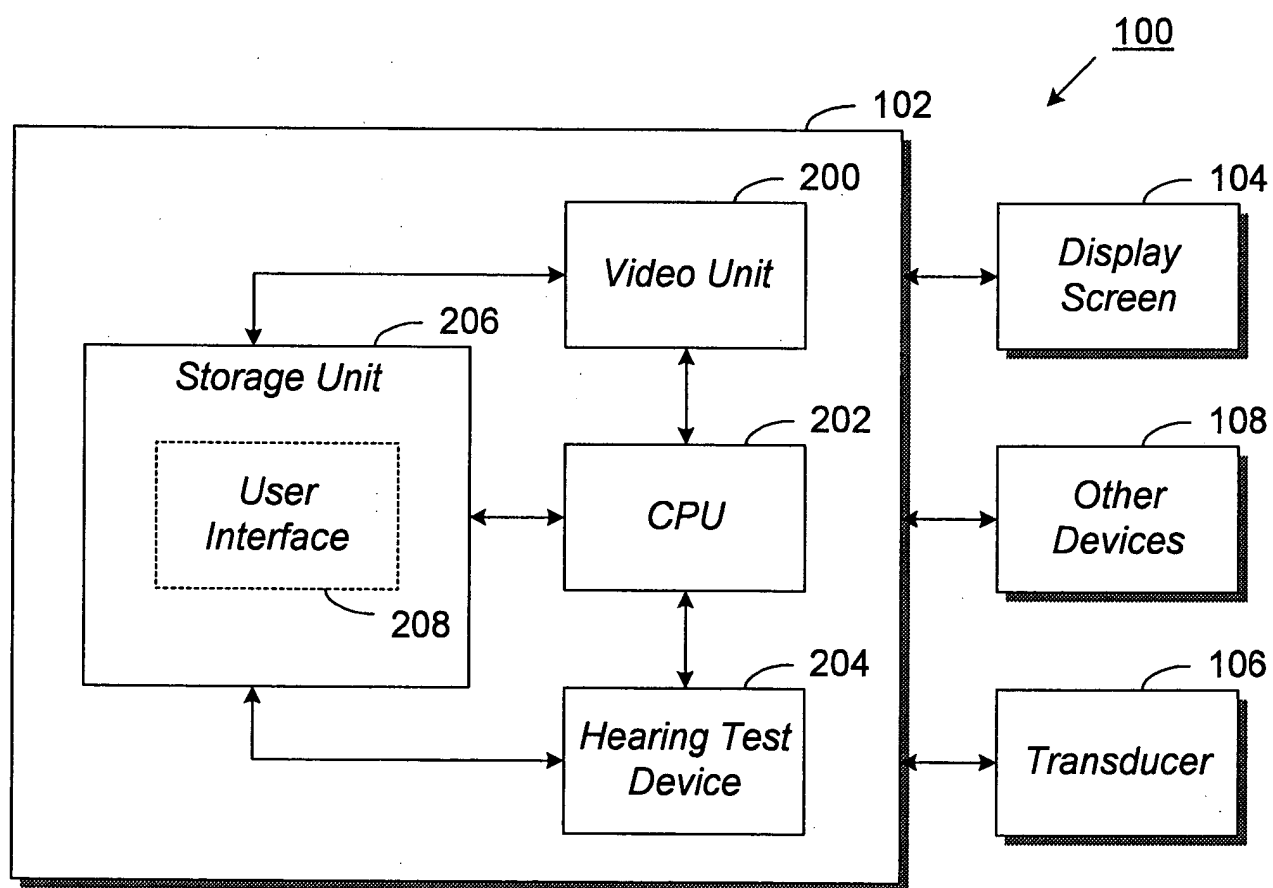


FIG. 2

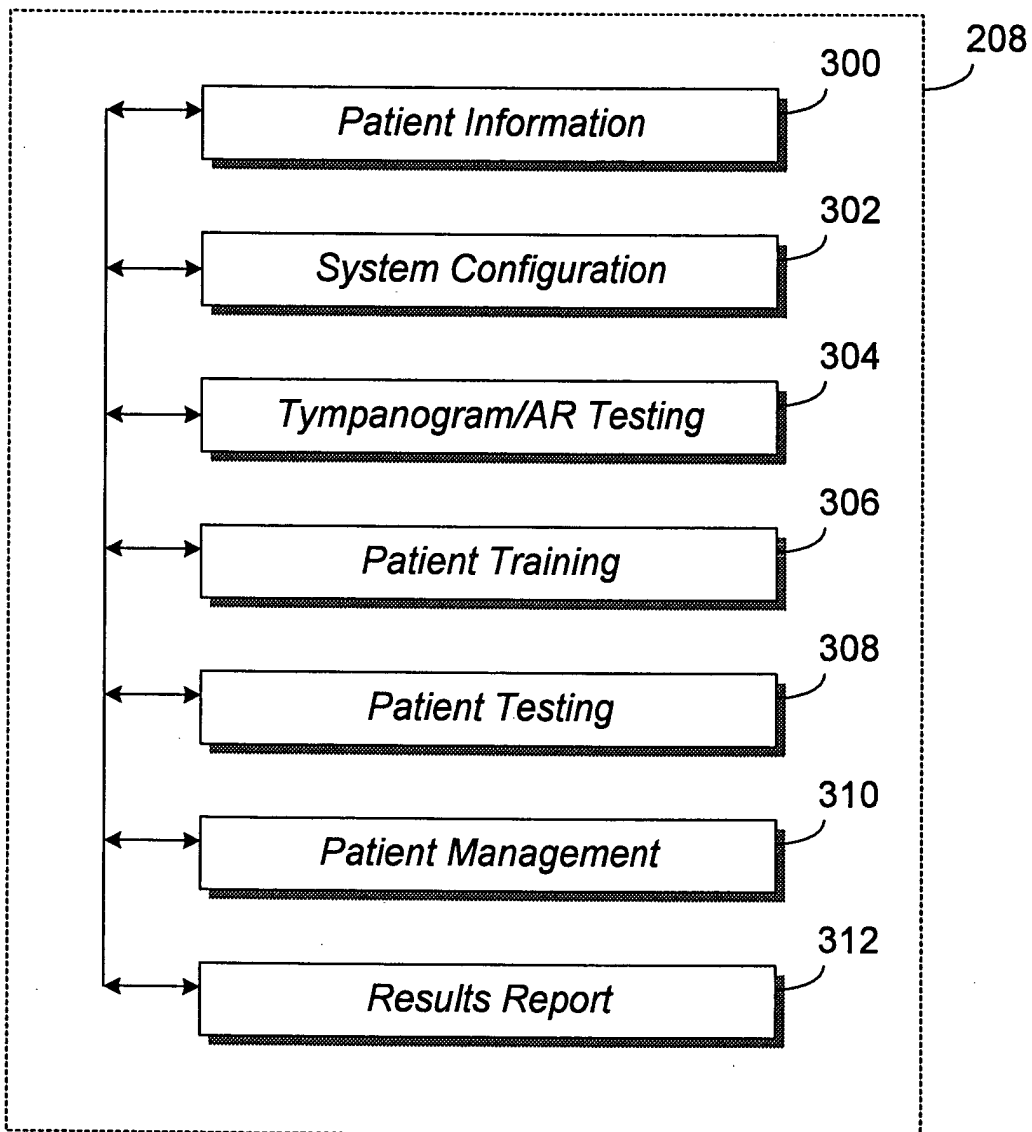


FIG. 3

Otogram
by Tympany

New Session

Testing Language: 406

Chart number: 402

Patient name: 404

View Reports 410

Advanced Options 412

Turn Off 414

Reconfigure 416

408 {

- ☒ Tympanogram
- ☒ Acoustic Reflex
- ☒ DP Otoacoustic Emissions
- ☐ Air and Bone Conduction
- ☐ Speech Reception
- ☐ Speech Discrim
- ☐ Patient Survey

↑
400

FIG. 4

Otogram Configuration

Input Screen | Paging Encoder Interface | Paging Options | Machine Options | Reporting Options | Network Options | Test Options

Doctors: *SD4*

Administrators: *SD6*

Dr. Smith

Jane Doe

Optional Input Fields

Doctor's Name	<input checked="" type="checkbox"/> Displayed	<input type="checkbox"/> Required
Clinic's Name	<input checked="" type="checkbox"/> Displayed	<input checked="" type="checkbox"/> Required
Date of Birth	<input type="checkbox"/> Displayed	<input type="checkbox"/> Required
Sex	<input type="checkbox"/> Displayed	<input type="checkbox"/> Required
Test Administrator	<input checked="" type="checkbox"/> Displayed	<input checked="" type="checkbox"/> Required

S12

S14

S02

S08

S10

Clinic: Southwest ENT

Chart# Default

Save Exit

S00

FIG. 5A

Ologram Configuration

Input Screen | **Paging Encoder Interface** | Paging Options | Machine Options | Reporting Options | Network Options | Test Options

522
☒ **Paging Encoder is Attached**

524 {
Communications Port: 1
Encoder ID: WaveWare Paging Encoder
Encoder Timeout: 500
Pager CapCode: 0000100
Pager Data Rate: 5

Save Exit

↑
520

FIG. 5B

Otogram Configuration

Input Screen | Paging Encoder Interface | **Paging Options** | Machine Options | Reporting Options | Network Options | Test Options

534 532

☒ Page Administrator at end of testing session

☐ Page Administrator at end of each test

☒ Page Administrator after inactivity threshold

536

☒ Page Administrator after inability to reach pure tone threshold

538

Page Format (%N-Patient Name, %T-Test Name.)

%N's Otogram is completed.

%N has completed the %T test.

%N is not progressing through the %T test.

Inactivity Threshold (in seconds) 120

%N is not progressing through the %T test.

Inability Threshold (in seconds) 360

Paging Device: 540

Network Paging Drop: 542

Save and Exit Exit

539

↑
530

FIG. 5C

Ologram Configuration

Input Screen	Paging Encoder Interface	Paging Options	Machine Options	Reporting Options	Network Options	Test Options
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Machine Identifier

546

Save Exit

↑
544

FIG. 5D

Diagram Configuration

Input Screen | Paging Encoder Interface | Paging Options | Machine Options | Reporting Options | Network Options | Test Options

Number of reports to print automatically at end of testing session SS0

Minimum intensity to report SS2

Save Exit

↑
S48

FIG. 5E

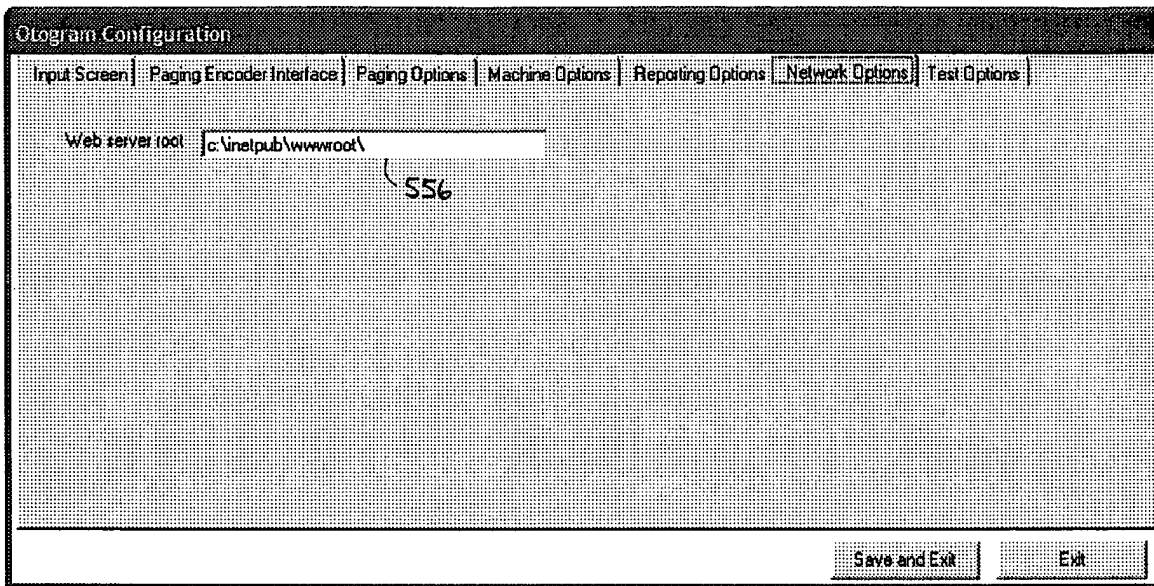


FIG. 5F

Otogram Configuration

Input Screen | Paging Encoder Interface | Paging Options | Machine Options | Reporting Options | Network Options | **Test Options**

Speech Reception Threshold | Survey | DP Otoacoustic Emissions |
 Pure Tone Air & Bone Conduction | Tympanometry | Acoustic Reflex | Speech Discrimination

Name: A&B 568

	250	500	1K	2K	3K	4K	6K	8K	
Always	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	} 570
Never	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
As Needed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

☐ Always mask bone 574

PTA is defined as average of:

- ☐ 2 best of 500Hz, 1kHz and 2kHz
- ☐ 500Hz + best of 1kHz or 2kHz
- ☐ 500Hz, 1kHz and 2kHz
- ☐ 500Hz, 1kHz, 2kHz, 3 or 4kHz

566 572

Test Selection Defaults

- ☒ Tympanometry
- ☒ Acoustic Reflex
- ☒ DP Otoacoustic Emissions
- ☐ Air and Bone Conduction
- ☐ Speech Reception Threshold
- ☐ Speech Discrimination
- ☐ Patient Survey

562

Save and Exit | Exit

↑
560

FIG. 5G

Otogram Configuration

Input Screen | Paging Encoder Interface | Paging Options | Machine Options | Reporting Options | Network Options | Test Options

Speech Reception Threshold | Survey | DP Otoacoustic Emissions |
Pure Tone Air & Bone Conduction | Tympanometry | Acoustic Reflex | Speech Discrimination

578 { Name: Tympanogram
Comm Port: 4 Zodiac 901 GSI-38 Fluffy No Tym Attached

580 { Starting Pressure (daPa): -400
Ending Pressure (daPa): 200

576 Calibration Values

	Left		Right	
0.5 cm3	0	Cal	-25.76	Cal
2.0 cm3	0	Cal	-21.21	Cal
4.0 cm3	0	Cal	-17.61	Cal

582

Test Selection Defaults

- ☒ Tympanometry
- ☒ Acoustic Reflex
- ☒ DP Otoacoustic Emissions
- ☐ Air and Bone Conduction
- ☐ Speech Reception Threshold
- ☐ Speech Discrimination
- ☐ Patient Survey

562

Save and Exit Exit

560 ↑

FIG. 5H

Otogram Configuration

Input Screen | Paging Encoder Interface | Paging Options | Machine Options | Reporting Options | Network Options | Test Options

Speech Reception Threshold | Survey | DP Otoacoustic Emissions | Pure Tone Air & Bone Conduction | Tympanometry | Acoustic Reflex | Speech Discrimination

Name: Acoustic Reflex S84

	Ipsilateral	Contralateral	
500	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Initial dB Level: 75 dB Increment Size: 10 Reflex Threshold (cm3): 0.05 S86
1K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

S85 S83

Test Selection Defaults

- ☒ Tympanometry
- ☒ Acoustic Reflex
- ☒ DP Otoacoustic Emissions
- ☐ Air and Bone Conduction
- ☐ Speech Reception Threshold
- ☐ Speech Discrimination
- ☐ Patient Survey

S82

Save and Exit Exit

↑
S60

FIG. 5I

OtoGram Configuration

Input Screen | Paging Encoder Interface | Paging Options | Machine Options | Reporting Options | Network Options | Test Options

Speech Reception Threshold | Survey | DP Otoacoustic Emissions |

Pure Tone Air & Bone Conduction | Tympanometry | Acoustic Reflex | Speech Discrimination

Name: Discrim 588

Presentation Base Level: AI Boost: 0

Presentation Type: Closed

Minimum Presentations: 12

Min Presentation Level: 30

Max Presentation Level: 120

Word List (Open Set, English Only): W-22 587

Test Selection Defaults:

- ☒ Tympanometry
- ☒ Acoustic Reflex
- ☒ DP Otoacoustic Emissions
- ☐ Air and Bone Conduction
- ☐ Speech Reception Threshold
- ☐ Speech Discrimination
- ☐ Patient Survey

589 {

562

Save and Exit Exit

↑
560

FIG. 5J

Otoacoustic Configuration

Input Screen | Paging Encoder Interface | Paging Options | Machine Options | Reporting Options | Network Options | Test Options

Pure Tone Air & Bone Conduction | Tympanometry | Acoustic Reflex | Speech Discrimination

Speech Reception Threshold | Survey | DP Otoacoustic Emissions

Name: SAT

Test Selection Defaults:

- ☒ Tympanometry
- ☒ Acoustic Reflex
- ☒ DP Otoacoustic Emissions
- ☐ Air and Bone Conduction
- ☐ Speech Reception Threshold
- ☐ Speech Discrimination
- ☐ Patient Survey

Save and Exit | Exit

↑
560

FIG. 5K

Otogram Configuration

Input Screen | Paging Encoder Interface | Paging Options | Machine Options | Reporting Options | Network Options | Test Options

Pure Tone Air & Bone Conduction | Tympanometry | Acoustic Reflex | Speech Discrimination

Speech Reception Threshold | Survey | DP Otoacoustic Emissions

Name: } 593

Survey Name: } 592

592

Test Selection Defaults:

- ☒ Tympanometry
- ☒ Acoustic Reflex
- ☒ DP Otoacoustic Emissions
- ☐ Air and Bone Conduction
- ☐ Speech Reception Threshold
- ☐ Speech Discrimination
- ☐ Patient Survey

562

Save and Exit | Exit

↑
560

FIG. 5L

Otogram Configuration

Input Screen | Paging Encoder Interface | Paging Options | Machine Options | Reporting Options | Network Options | Test Options

Pure Tone Air & Bone Conduction | Tympanometry | Acoustic Reflex | Speech Discrimination
 Speech Reception Threshold | Survey | DP Otoacoustic Emissions

Name: DP Otoacoustic Emissions 595

	Test	Response Floor	Noise Ceiling		
596 {	500	<input checked="" type="checkbox"/>	-5	15	L1 (dB) 60
	1K	<input checked="" type="checkbox"/>	-5	0	L2 (dB) 50
	2K	<input checked="" type="checkbox"/>	-5	-10	
	4K	<input checked="" type="checkbox"/>	-5	-15	

594

Test Selection Defaults

☒ Tympanometry

☒ Acoustic Reflex

☒ DP Otoacoustic Emissions

☐ Air and Bone Conduction

☐ Speech Reception Threshold

☐ Speech Discrimination

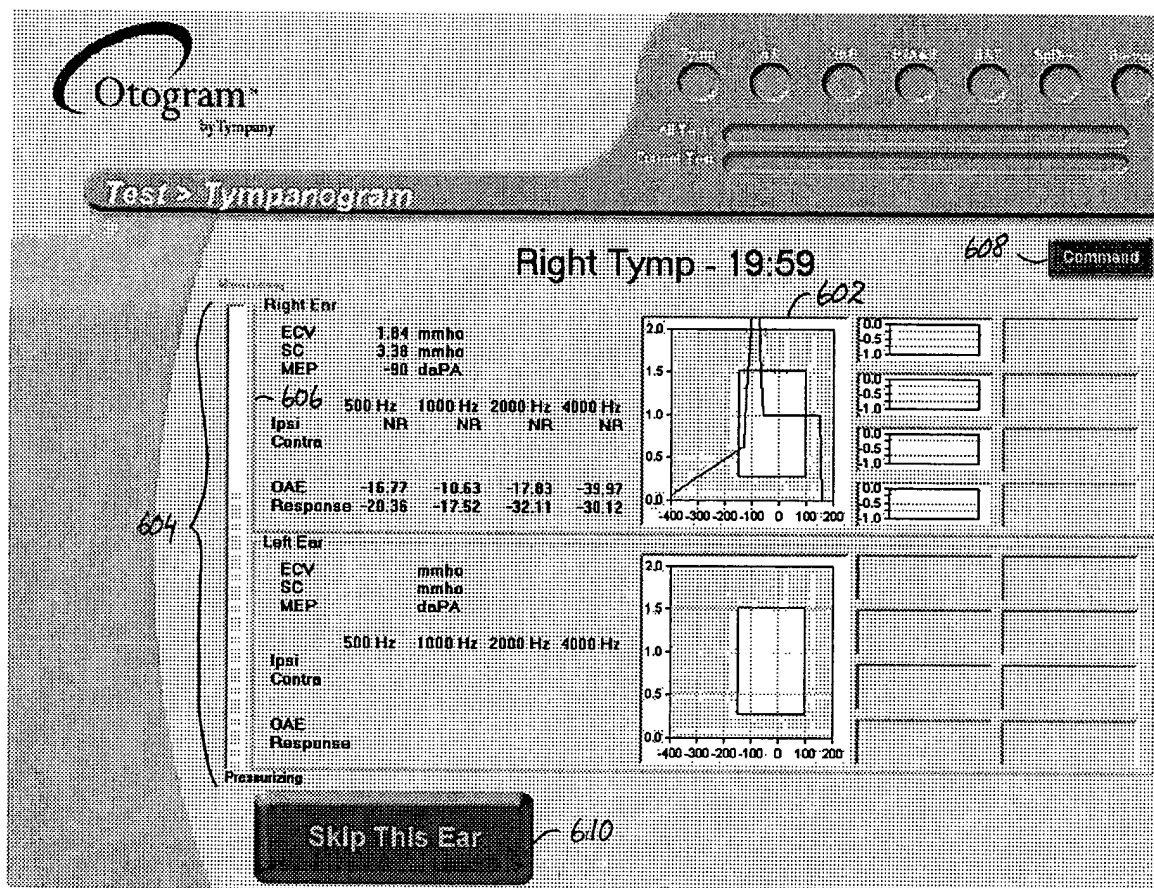
☐ Patient Survey

562

Save and Exit Exit

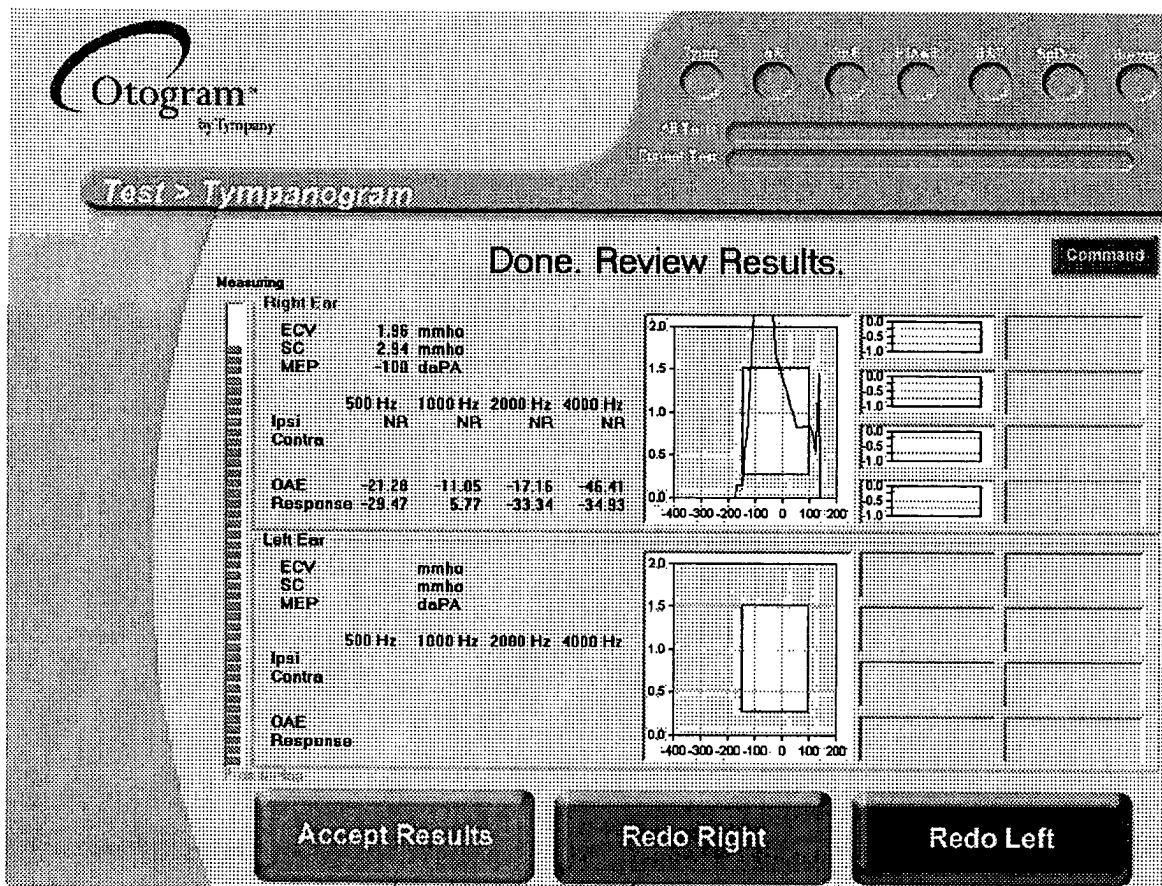
560 ↑

FIG. 5M



600

FIG. 6A



612

614

616

618

FIG. 6B

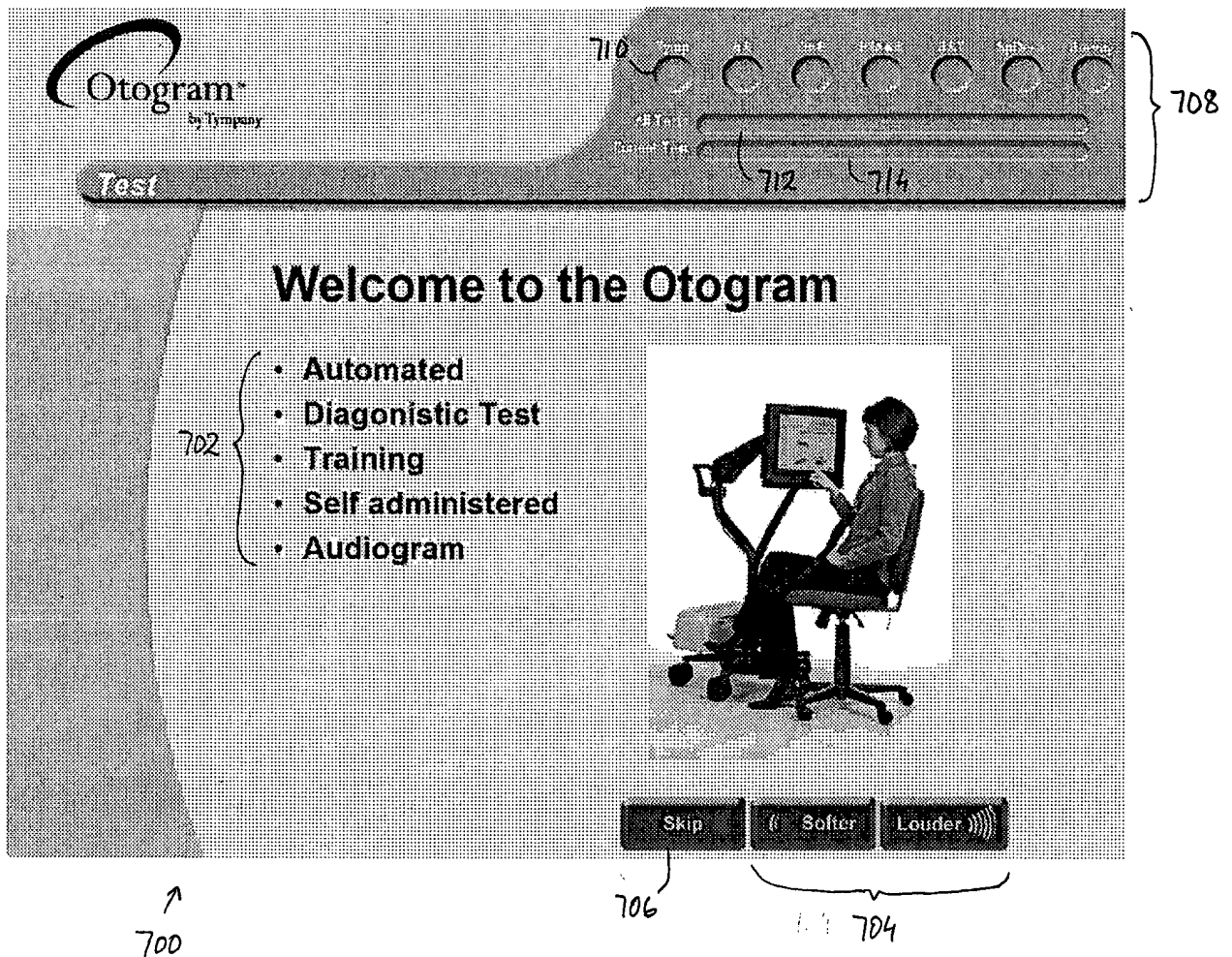


FIG. 7A

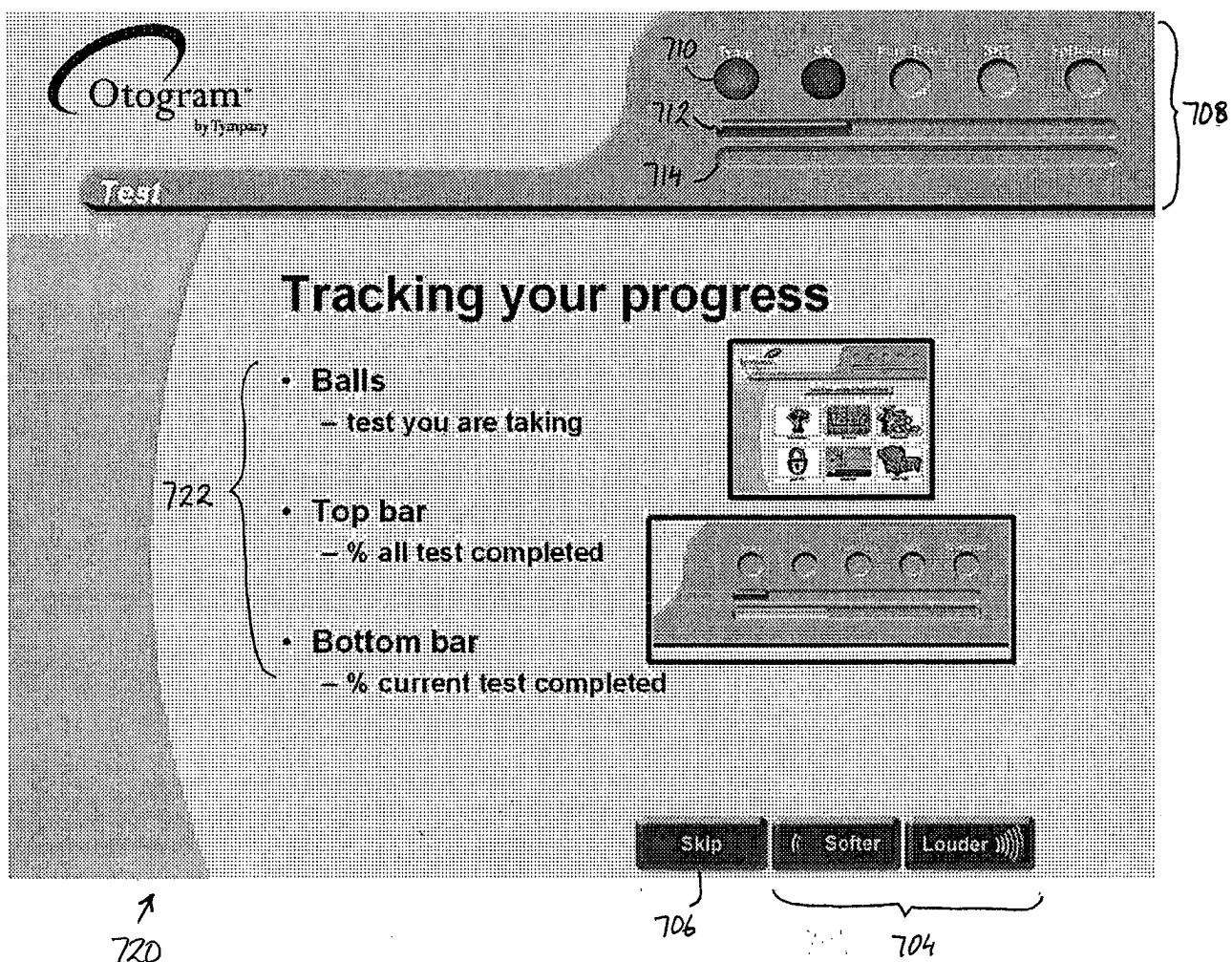


FIG. 7B

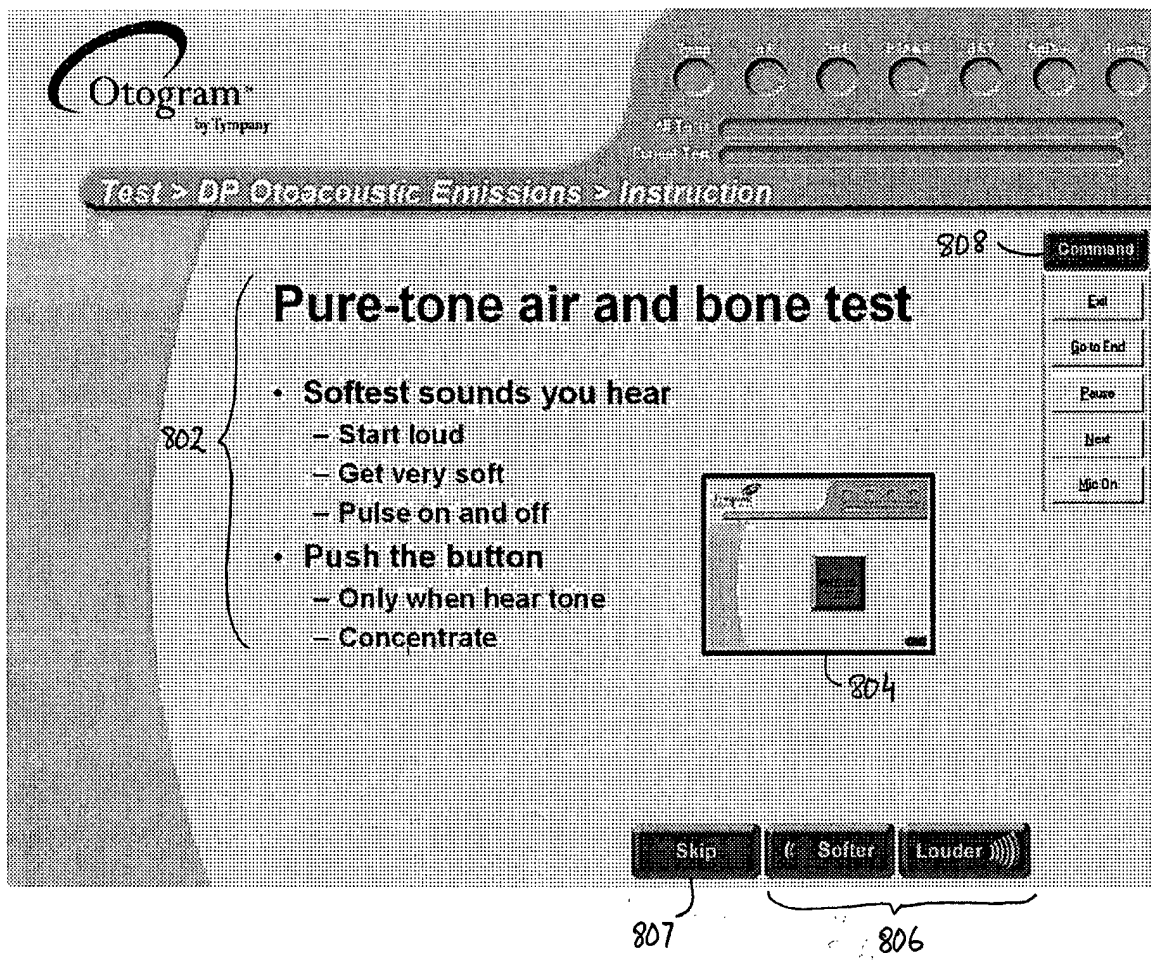


FIG. 8A

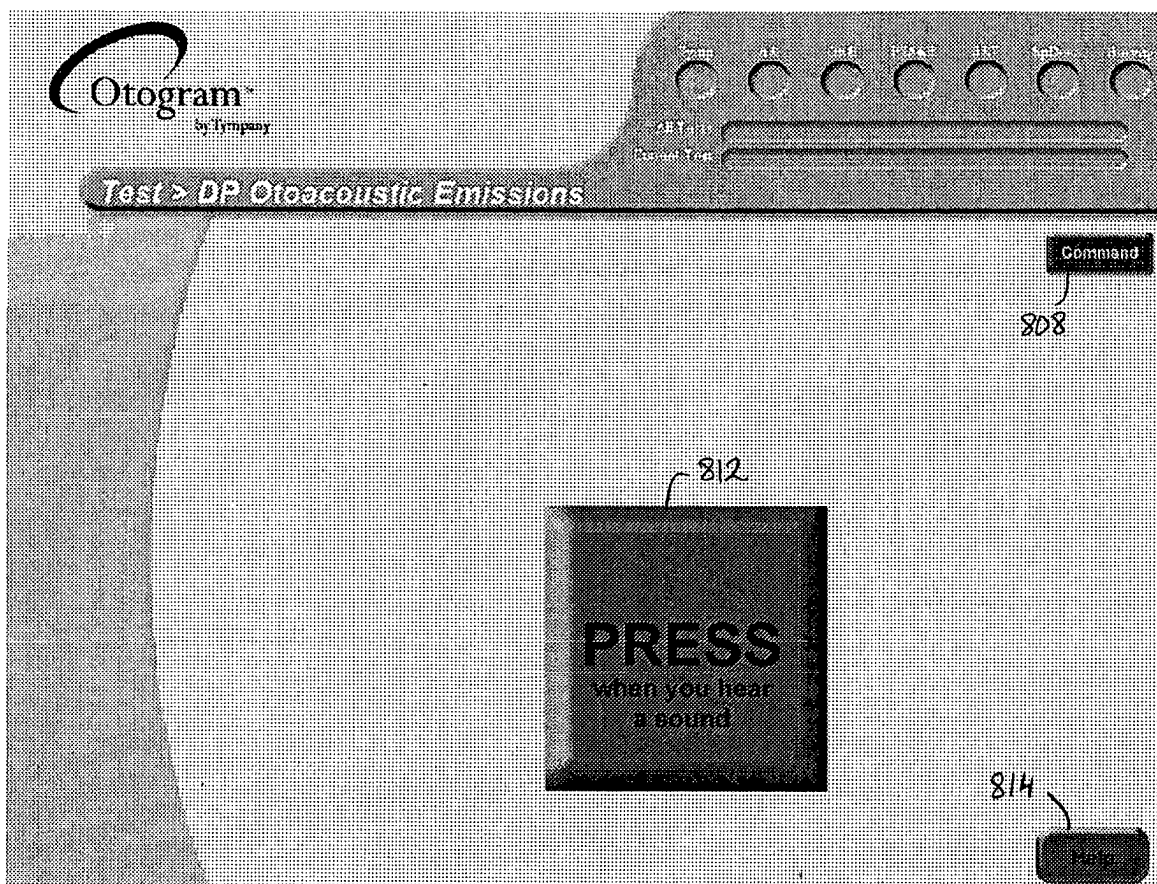


FIG. 8B

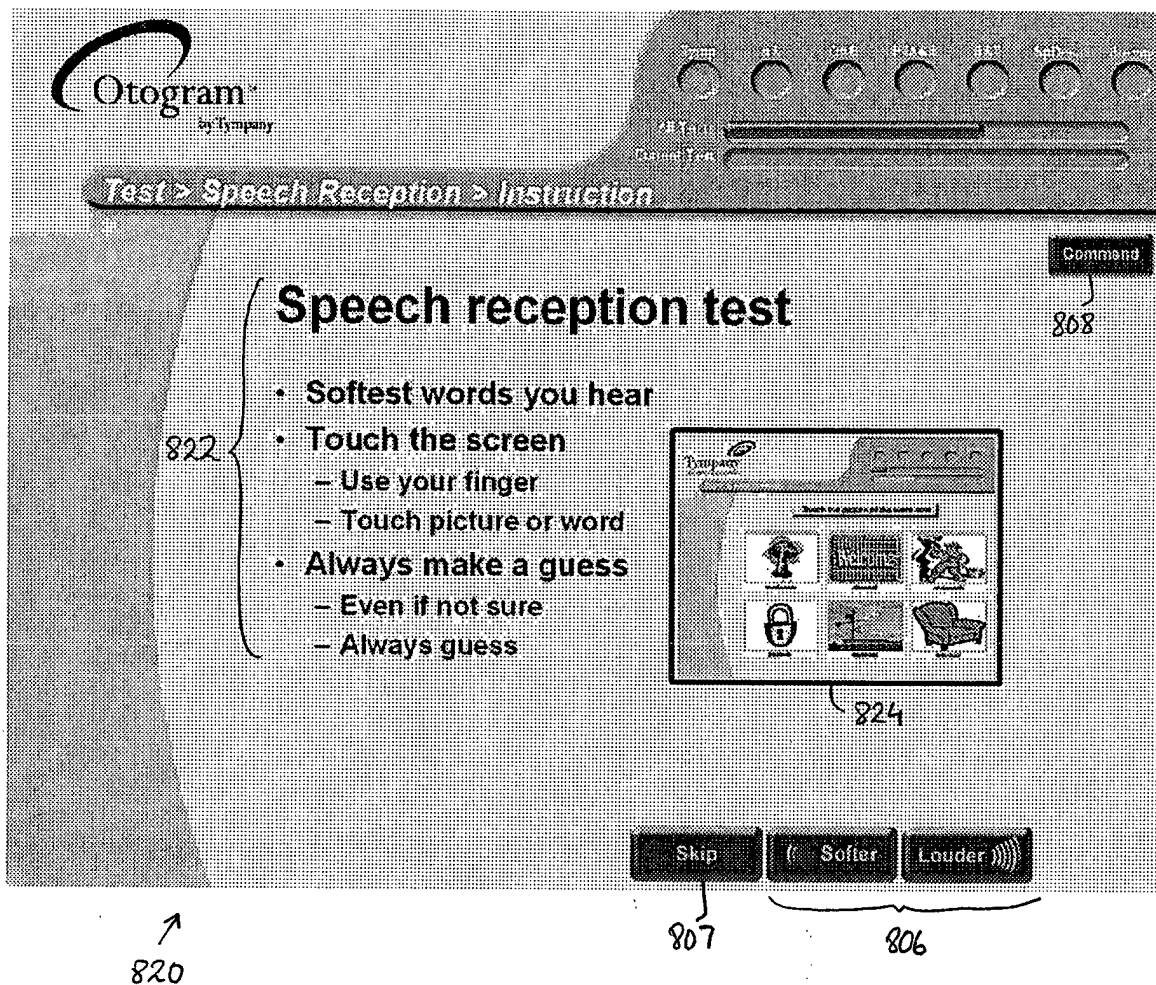
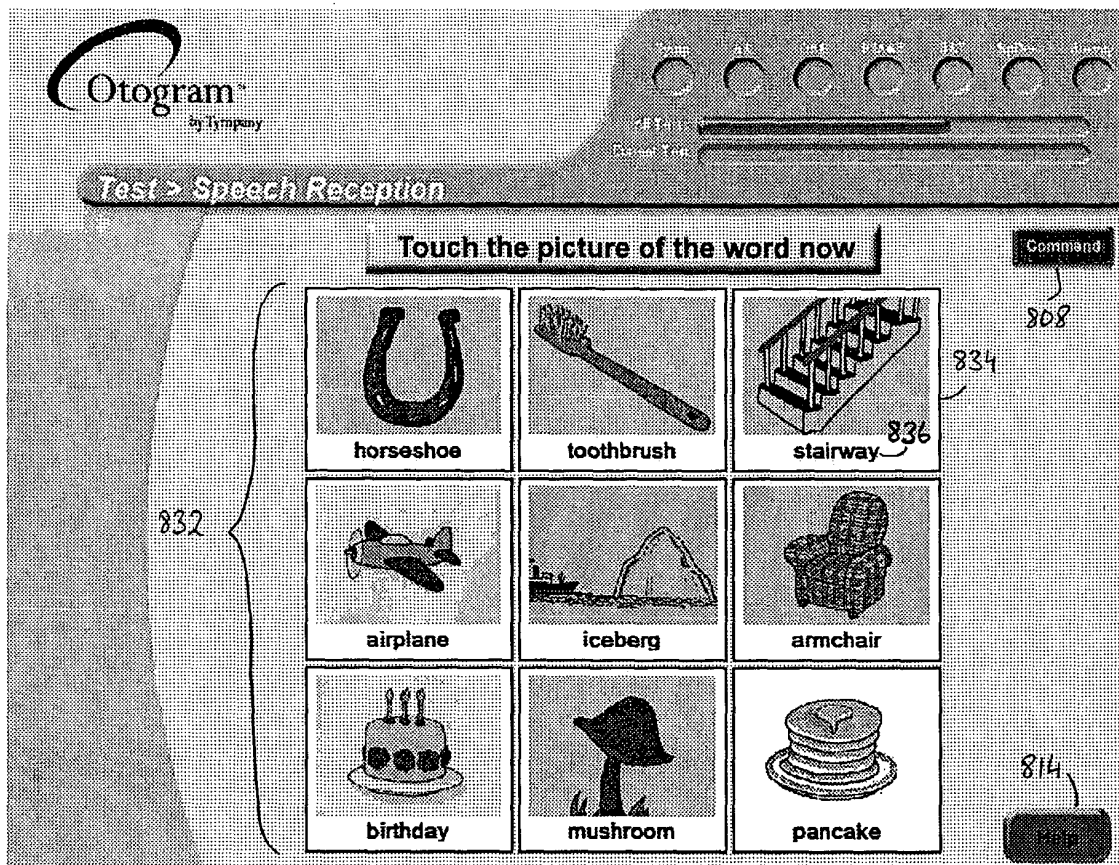


FIG. 8C



↑
830

FIG. 8D

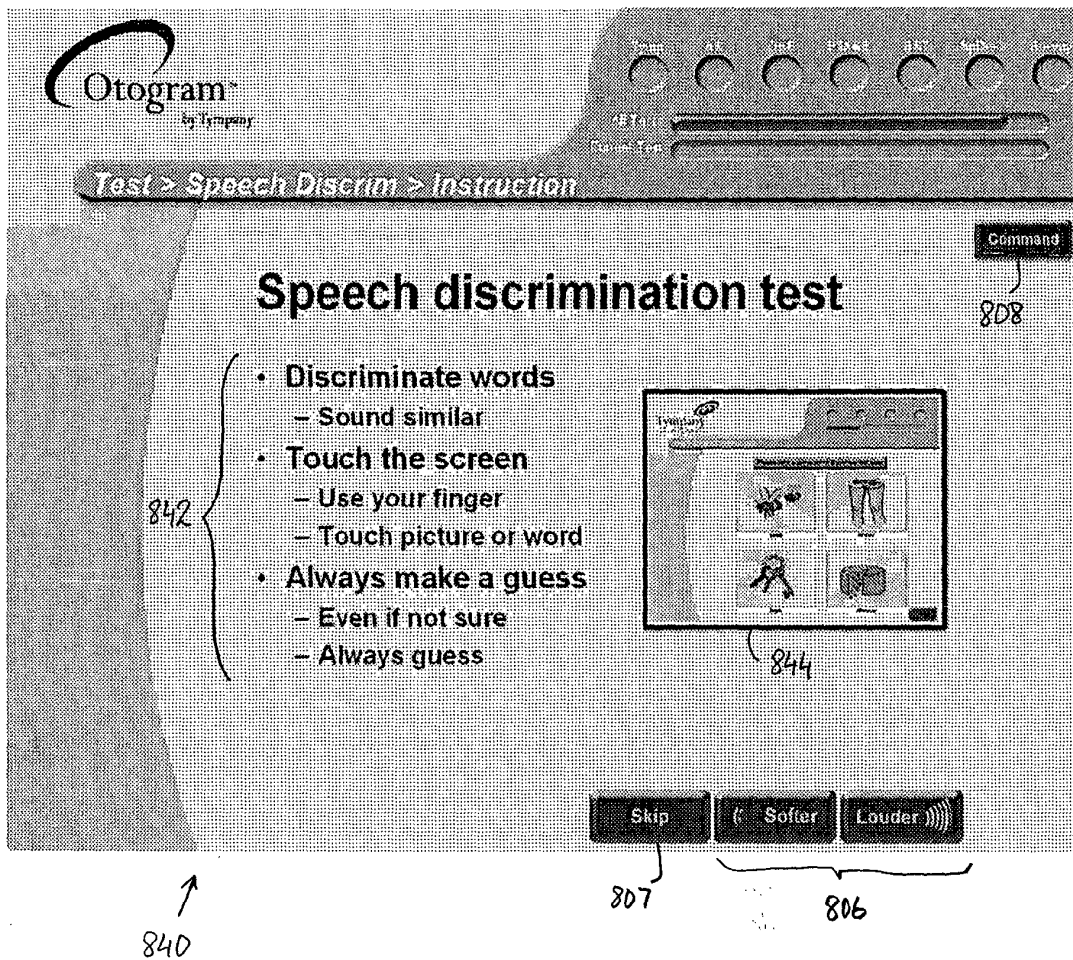
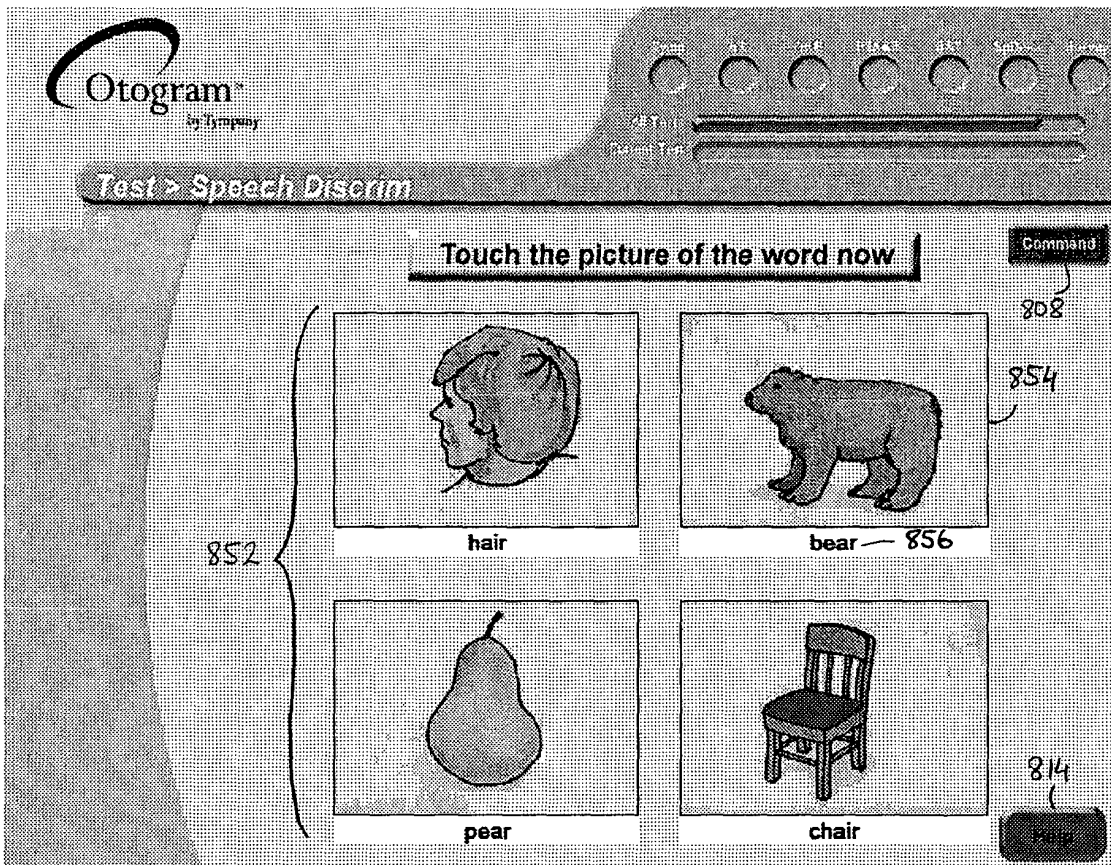


FIG. 8E



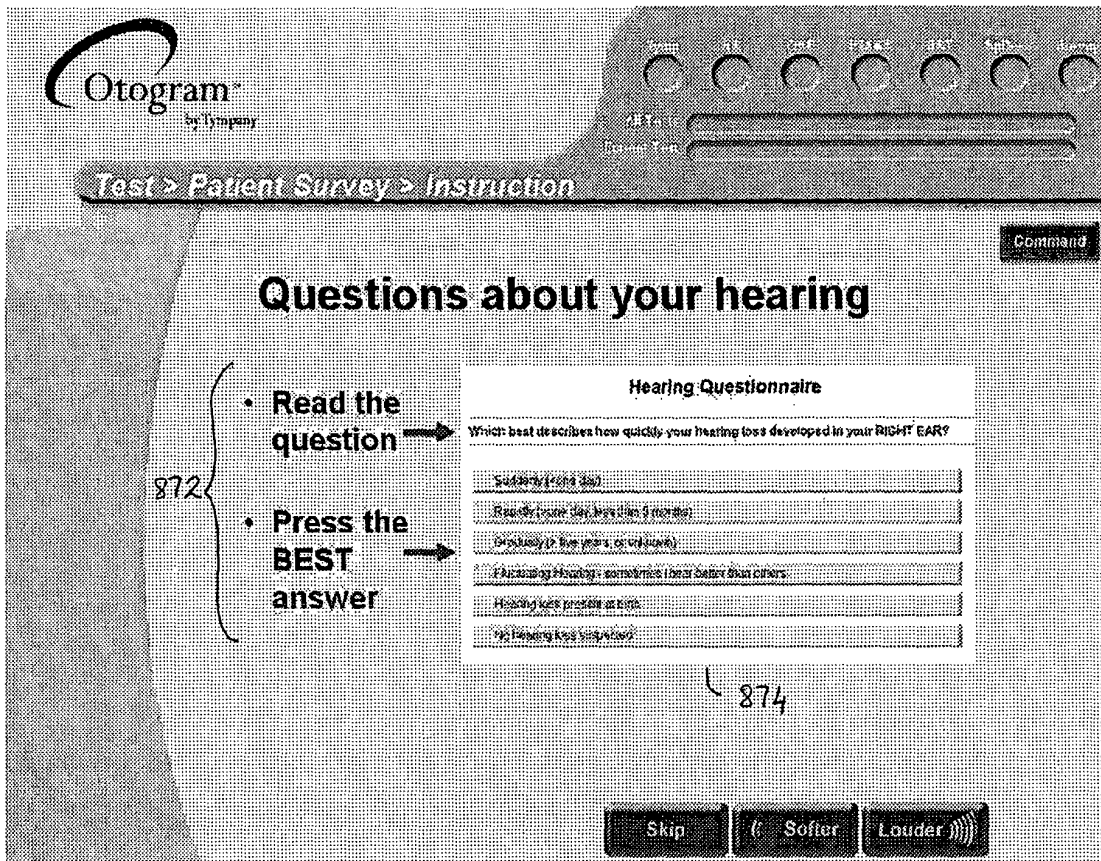
↑
850

FIG. 8F



↑
860

FIG. 8G



↑
870

FIG. 8H

Otogram[™]
by Tympany

Test > Patient Survey

Hearing Questionnaire

Does a hearing problem cause you to use the phone less often than you would like?

Yes

Sometimes

No

Continued

↑
880

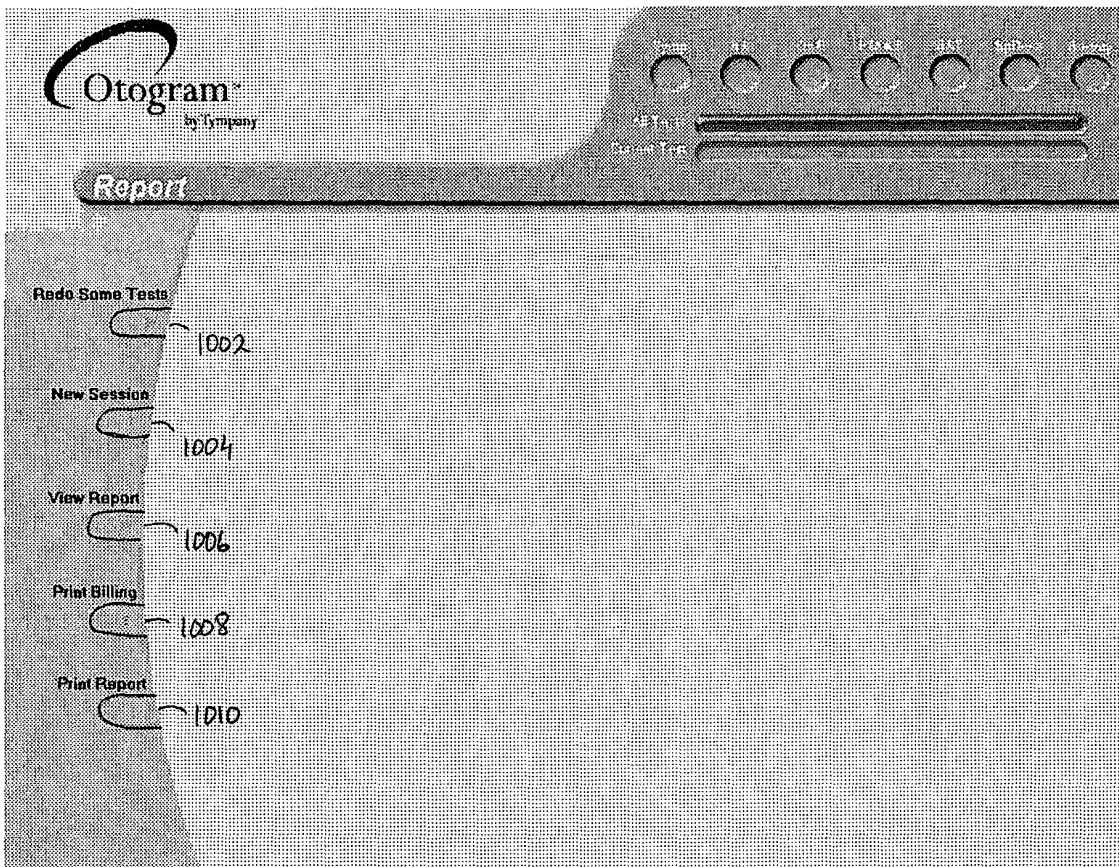
FIG. 8I

**The test administrator
has been paged.**

**Please wait for the
administrator to return.**

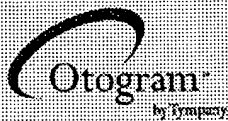
900 ↗

FIG. 9



↑
1000

FIG. 10A



Report

1032

1034

1030

Change Report Style

View Saved Report

Save Report

Redo Some Tests

1002

New Session

1004

View Report

1006

Print Billing

1008

Print Report

1010



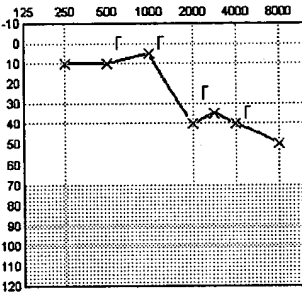
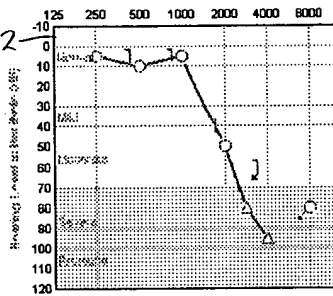
Name J. O.
Date 09/14/2002
Time 15:28
DOB Age 45 years
Sex Male

1028

Chart# Profound Unilateral Loss
Physician
Tester Tympany
Clinic TAR: PT:13.98 SRT:2.95 SD:1.41
Elapsed



1022



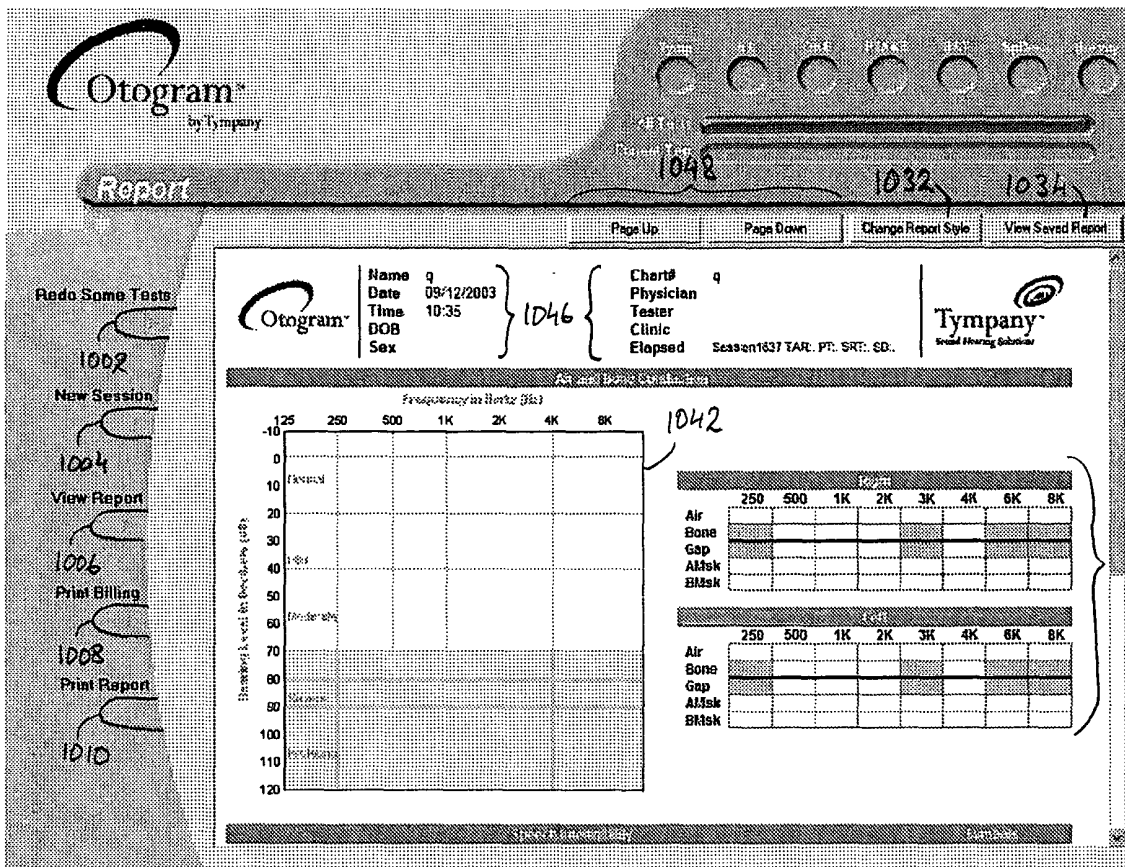
1024

	250	500	1K	2K	3K	4K	6K	8K	250	500	1K	2K	3K	4K	6K	8K
Air	5	10	5	50	60	55	60	60	10	10	5	40	35	40	40	50
Bone	5	5	5	40	60	60			0	0	25	35	40	35		
Gap		5	0	10					10	5	15		5			
AMsk					40	50										
BMsk		37	32	76		65			32	27	51		85			

1026

1020

FIG. 10B



↑
1040

FIG. 10C

Report Search

Sort By Clinic

Select By Date of Test

Criteria

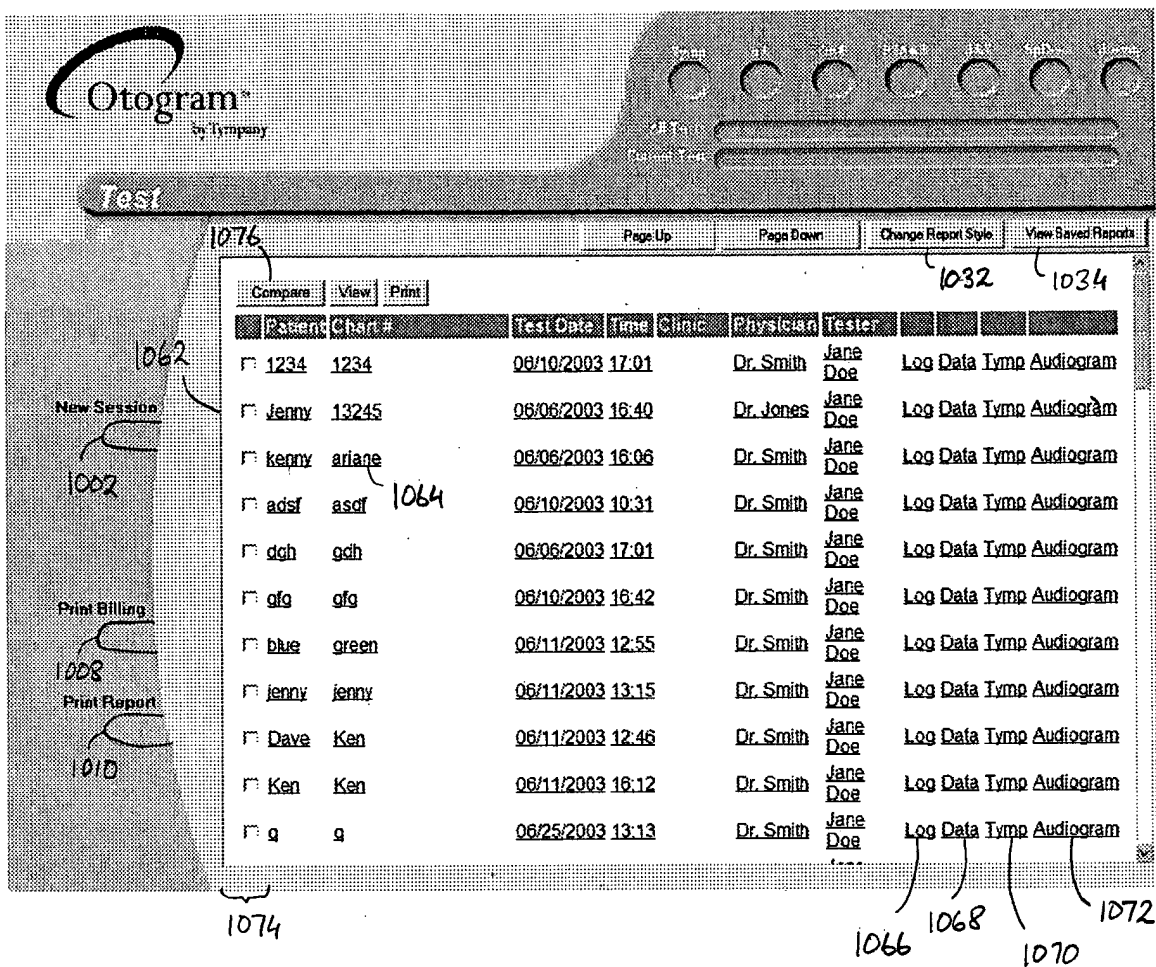
1054

Display All Search Cancel

1052

↑
1050

FIG. 10D



1060

FIG. 10E

Test

Page Up

Page Down

Change Report Style

Back



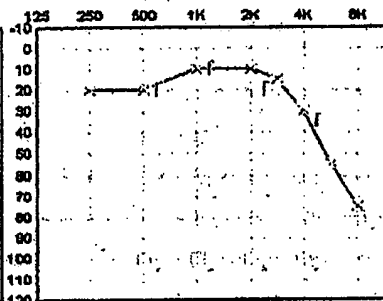
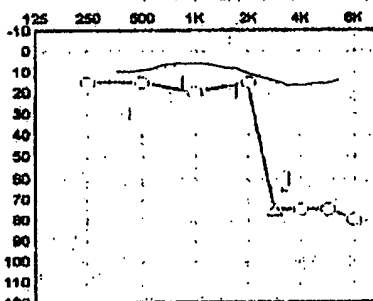
Name: B. W.
Date: 09/14/2002 vs. 09/05/2002
Time: 09:20 vs. 14:22
DOB: Age 62 years ← 1090 →
Sex: Male

Chart: Moderate to Severe
Physician: Tympany
Tester: TAA: PT:18.08 SRT:4.4 SD:1.48
Clinic:
Elapsed:

Tympany[™]
Sound Fielding Software

Right Air and Bone Conduction

Left Air and Bone Conduction



	250	500	1K	2K	4K	8K	8K
Mr	18/10	15/10	20/5	14/10	75/16	16/20	75/12
Bone	20/0	20/0	15/0	10/0	50/20		
Gap		15/10	5/4	0/10	14/5		
AMak					27/7		
Stmk	57/40	37/40	41/40		50/40		

	250	500	1K	2K	4K	8K	8K
Mr	20/00	20/00	10/100	10/100	10/100	30/100	50/100
Bone	20/00	20/00	10/00	20/00	20/00		
Gap		0/7	0/7	10/7	16/7		
AMak		7/40	7/00	7/00	7/40		
Stmk	47/00	43/00	41/07		74/00		77/1

Speed Tympany

Speed Tympany

New Session 1002

Print Billing 1008

Print Report 1010

1080

FIG. 10F

1032

1096

1082 →

← 1084

1086 →

← 1088